| L Number | Hits |  | DB                    | Time stamp       |
|----------|------|--|-----------------------|------------------|
| 1        | 95   | ("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"<br>"4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"  | USPAT;<br>US-PGPUB;   | 2004/04/26 10:46 |
|          |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"  | EPO; JPO;             | 1                |
|          |      | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"  | DERWENT:              | l                |
|          |      | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"  | IBM_TDB               | 1                |
|          |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721   |                       |                  |
| 2        | 9    |  | USPAT:                | 2004/04/26 10:46 |
| _        | _    | US-5262940-\$ or US-5671330-\$).did. or (EP-731446-\$).did.  | EPO                   |                  |
| 3        | 0    |  | USPAT;                | 2004/04/26 10:46 |
|          |      | "4780856" "4823807" "5010342" "5442591" "6229522" "6283284" "6404977" "4876617" "5255685"  | US-PGPUB;             |                  |
|          |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"  | EPO; JPO;             |                  |
|          |      | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"  | DERWENT;              |                  |
|          |      | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"  | IBM_TDB               | l                |
|          |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)  |                       |                  |
|          |      | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or  |                       |                  |
|          |      | US-5262940-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and signature adj array  | LICOAT                | 2004/04/00 40:45 |
| 4        | 1    | ((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6483387" "5572483" "5012453"   | USPAT:                | 2004/04/26 10:45 |
|          |      | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"  | US-PGPUB;             |                  |
|          |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"<br>  "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"   | EPO; JPO;<br>DERWENT: | ļ                |
|          |      | 5/99982   5628405   5693059   5916223   5920317   5966076   6014624   6049730   6065160   6068455"   6065160   606 |                       |                  |
|          |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)  | IBM_TDB               | ŀ                |
| l i      |      | ((US-5983178-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or  | i                     |                  |
|          |      | (05-5965176-\$ or 05-5547065-\$ or 05-5250745-\$ or 05-3916225-\$ or 05-3539055-\$ or US-5262940-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and signature same array   |                       |                  |
| 5        | 0    | (704/,cds.) and (@ad @pd @prad)<=20000721 and signature adj array  | USPAT:                | 2004/04/26 10:47 |
| 3        |      | (7047.Cus.) and (@ad @pt @prad) = 2000072 Fand signature adjanay   | US-PGPUB:             | 2004/04/20 10.47 |
| l i      |      |  | EPO: JPO:             | 0                |
|          |      |  | DERWENT:              |                  |
|          |      |  | IBM TOB               |                  |
| 6        | 9    | (704/.ccls.) and (@ad @pd @prad)<=20000721 and signature with array  | USPAT:                | 2004/04/26 12:01 |
|          | •    | (104) Coss., and (good general) - 2000012 and signature with and   | US-PGPUB:             | 2004/04/20 12:01 |
|          |      |  | EPO: JPO:             |                  |
|          |      |  | DERWENT:              |                  |
| . 1      |      |  | IBM_TDB               |                  |
| 7        | 9    | ((704/.ccts.) and (@ad @pd @prad)<=20000721 and signature with array ) and (number occur\$8 frequen\$8)  | USPAT:                | 2004/04/26 12:01 |
|          |      | same (signature array)   | US-PGPUB:             |                  |
|          |      | , ,  | EPO: JPO:             | 1                |
|          |      |  | DERWENT;              |                  |
|          |      |  | IBM_TDB               |                  |
| 8        | 27   | (704/.ccls.) and (@ad @pd @prad)<=20000721 and signature with (matrix table list array)  | USPAT;                | 2004/04/26 12:04 |
|          |      | (* · · · · · · · · · · · · · · · · · · ·   | US-PGPUB;             |                  |
|          |      |  | EPO; JPO;             |                  |
|          |      |  | DERWENT;              |                  |
|          |      |  | (BM_TDB               |                  |
| 9        | 13   | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and signature with (matrix table list array )) and (number   | USPAT;                | 2004/04/26 12:05 |
|          |      | occur\$8 frequen\$8) same (signature with (matrix table list array ))  | US-PGPUB;             |                  |
|          |      |  | EPO; JPO;             |                  |
| l        | l i  |  | DERWENT;              |                  |
|          |      |  | IBM_TDB               | I.               |

Search History 4/26/04 4:30:00 PM Page 1 C:\APPS\EAST\Workspaces\09621619.wsp

| 10       | 636   | (704/.ccls.) and (@ad @pd @prad)<=20000721 and (signature pattern) with (matrix table list array )                    | USPAT;    | 2004/04/26 13:19   |
|----------|-------|---|-----------|--------------------|
| i        | 1     |   | US-PGPUB: |                    |
| I        |       |   | EPO: JPO: |                    |
| 1        |       |   | DERWENT:  |                    |
|          |       |   | IBM TDB   | j                  |
| 11       | 315   | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and (signature pattern) with (matrix table list array )) and              | USPAT;    | 2004/04/26 12:06   |
| 1''      | 0.0   | (number occur\$8 frequen\$8) same ((signature pattern) with (matrix table list array ))                               | US-PGPUB: | 200-770-7720 12:00 |
| i        | i     | (hamber second requests) same ((signature pattern) with (mainx table ast array ))                                     | EPO; JPO; | }                  |
| 1        |       |   | DERWENT:  | i                  |
| İ        |       |   | IBM TDB   |                    |
| 13       | 42    | ///7041 cale ) and (Shad Shad Shared) on 20000724 and (signature pattern) with (matrix table list array.)) and        |           | 2004/04/26 13:20   |
| 13       | 42    |   | USPAT;    | 2004/04/26 13:20   |
| [        |       | (number occur\$8 frequen\$8) with ((signature pattern) with (matrix table list array ))) and digital with sampl\$4    | US-PGPUB: |                    |
| ĺ        | 1     |   | EPO; JPO; |                    |
|          |       |   | DERWENT;  |                    |
| 1        |       |   | IBM_TDB   |                    |
| 14       | 0     | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and (signature pattern) with (matrix table list array )) and              | USPAT;    | 2004/04/26 12:08   |
|          |       | (number occur\$8 frequen\$8) with ((signature pattern) with (matrix table list array ) with ( digital with sampl\$4)) | US-PGPUB; |                    |
| <b>;</b> | 1     |   | EPO; JPO; | i l                |
| i        |       |   | DERWENT;  | i I                |
|          |       |   | IBM TDB   |                    |
| 15       | 1 0   | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and (signature pattern) with (matrix table list array )) and              | USPAT:    | 2004/04/26 12:08   |
|          |       | (number occur\$8 frequen\$8) with ((signature pattern) with (matrix table list array ) same ( digital with            | US-PGPUB: |                    |
| 1        |       | sampl\$4))  | EPO: JPO: |                    |
| 1        |       |   | DERWENT:  |                    |
|          |       |   | IBM TDB   |                    |
| 12       | 207   | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and (signature pattern) with (matrix table list array )) and              | USPAT:    | 2004/04/26 13:19   |
| 1 '-     | 1 20' | (number occur\$8 frequen\$8) with ((signature pattern) with (matrix table list array ))                               | US-PGPUB: | 200-70-720 10:10   |
| 1        |       | (highings occurs requests) with ((signature pattern) with (highing table his alray ))                                 | EPO: JPO: |                    |
|          |       |   | DERWENT:  |                    |
|          |       |   | IBM_TDB   |                    |
| 16       | ۱ 4۵  | (704/.ccls.) and (@ad @pd @prad)<=20000721 and (number occur\$8 frequen\$8) with ((signature pattern)                 |           | 0004/04/00 40:00   |
| 10       | 42    |   | USPAT;    | 2004/04/26 13:23   |
|          |       | with (matrix table list array )) and digital with sampl\$4  | US-PGPUB; |                    |
| 1        |       |   | EPO; JPO; |                    |
| 1        |       |   | DERWENT;  |                    |
|          | l _   |   | IBM_TDB   |                    |
| 17       | 3     | ((704/.ccls.) and (@ad @pd @prad)<=20000721 and (number occur\$8 frequen\$8) with ((signature pattern)                | USPAT;    | 2004/04/26 13:23   |
| 1        |       | with (matrix table list array )) and digital with sampl\$4) and signature   | US-PGPUB; |                    |
| ì        |       |   | EPO; JPO; |                    |
| İ        |       |   | DERWENT;  |                    |
|          |       |   | IBM_TDB   |                    |
| 18       | 11    | (US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or                | USPAT;    | 2004/04/26 13:35   |
| 1        | 1     | US-5282940-\$ or US-5671330-\$ or US-5581658-\$).did, or (US-20010005823-\$).did, or (EP-731446-\$).did.              | US-PGPUB; |                    |
|          | 1     |   | EPO       |                    |
| 19       | 7     | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or               | USPAT:    | 2004/04/26 13:35   |
| 1        | 1     | US-5262940-\$ or US-5671330-\$ or US-5581658-\$), did. or (US-20010005823-\$), did. or (EP-731446-\$), did.)          | US-PGPUB: |                    |
| ì        | 1     | and wave\$8 with (sample digital data)  | EPO: JPO: |                    |
|          |       |   | DERWENT:  |                    |
| 1        | 1     |   | IBM TOB   | ]                  |
|          |       |   |           |                    |

| 20 | 8  | ((US-5983176-\$ or US-347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-553 \$ or US-5282940-\$ or US-5671330-\$ or US-5581658-\$).did. or (US-20010005823-\$).did. or (EP-731446-\$).did.) and wave\$8 same (sample digital data)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                       | 2004/04/26 14:40 |
|----|----|--|--|------------------|
| 21 | 3  | (((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or US-5262940-\$ or US-5671330-\$ or US-5581658-\$).did. or (US-20010005823-\$).did. or (EP-731446-\$).did.) and wave\$8 same (sample digital data)) and ident\$8 with (signature array)   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;            | 2004/04/26 14:54 |
| 24 | 30 | ("3810156" "4230990" "4450531" "4677466" "4697209" "4739398" "4857999" "5019899" "5220840" "5306893" "5308915" "5381513" "5402519" "5426745").pn.  | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2004/04/26 14:58 |
| 25 | 41 | (US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539835-\$ or US-5262940-\$ or US-5671330-\$ or US-5581658-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or US-4677466-\$ or US-4697209-\$ or US-477466-\$ or US-4697209-\$ or US-530893-\$ or US-5426745-\$). did. or (US-20010005823-\$). did. or (EP-731446-\$ or DE-4230990-\$). did. or (US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or EP-181512-\$ or EP-210609-\$ or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or EP-48850-\$ or DE-4230990-\$ or US-520640-\$ or US-530893-\$ or US-5308915-\$ or US-5381513-\$ or US-5426745-\$). did.  | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT                             | 2004/04/26 14:57 |
| 26 | 6  | (US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or US-5262940-\$ or US-5671330-\$ or US-5581658-\$ or US-3810158-\$ or US-4230990-\$ or US-4450531-\$ or US-4877468-\$ or US-4677209-\$ or US-4739398-\$ or US-4877999-\$ or US-530893-\$ or US-520640-\$ or US-530693-\$ or US-5308915-\$ or US-5381513-\$ or US-5402519-\$ or US-5426745-\$, old. or (US-20010005823-\$), did. or (EP-731448-\$ or DE-4230990-\$), did. or (US-3810156-\$ or US-4230990-\$) or US-4450531-\$ or EP-181512-\$ or EP-210609-\$ or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or EP-488150-\$ or DE-4230990-\$ or US-520640-\$ or US-5306893-\$ or US-5308915-\$ or US-53181513-\$ or US-5426745-\$), did. or (US-520640-\$ or US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or US-5426745-\$).  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/26 15:03 |
| 27 | 2  | (IUS-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539835-\$ or US-5262940-\$ or US-5671330-\$ or US-552565745-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or US-4677466-\$ or US-4677209-\$ or US-477468-\$ or US-5019899-\$ or US-5220640-\$ or US-5306893-\$ or US-5308915-\$ or US-53081513-\$ or US-5402519-\$ or US-5426745-\$), did. or (US-20010005823-\$), did. or (EP-731446-\$ or DE-4230990-\$), did. or (US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or EP-181512-\$ or EP-210609-\$ or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or US-4857999-\$ or US-4230990-\$ or US-4450531-\$ or EP-181512-\$ or EP-210609-\$ or EP-248533-\$ or US-5308915-\$ or US-530581513-\$ or US-520640-\$ or US-4250990-\$ or US-4250990-\$ or US-4250990-\$ or US-4250990-\$ or US-4250990-\$ or US-4250990-\$ or US-5426745-\$ or US-5308915-\$ or US-5405745-\$ or US-54 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/26 15:33 |
| 28 | 1  | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or US-5262940-\$ or US-5671330-\$ or US-5581658-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or US-444156531-\$ or US-467466-\$ or US-4697209-\$ or US-4450531-\$ or US-5487999-\$ or US-5018999-\$ or US-5226640-\$ or US-5306893-\$ or US-5308915-\$ or US-5308915-\$ or US-5487999-\$ or US-5426745-\$).did. or (US-22010005523-\$).did. or (US-731446-\$ or DE-4230990-\$).did. or (US-3810156-\$ or US-4230990-\$ or US-5450531-\$ or US-5450531-\$ or US-5450531-\$ or US-5450531-\$ or US-5308915-\$ or US-5308915-\$ or US-5220640-\$ or US-530893-\$ or US-5308915-\$ or US-5381513-\$ or US-546745-\$).did.) and ((average aver avg) with (diff differ\$8) with (predetermin\$4 thresh\$4)) same (select\$4 identitS8 match\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/26 15:30 |

Search History 4/26/04 4:30:00 PM Page 3 C:\APPS\EAST\Workspaces\09621619.wsp

|    |     | 1/1/15 F000470 6 1/15 F047002 6 1/15 F04074F 6 1/15 F040707 6 1/15 F50002 F 6  | USPAT:              | 2004/04/26 15:34 |
|----|-----|--|---------------------|------------------|
| 29 | 6   | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or US-562940-\$ or US-5671330-\$ or US-5581658-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or | USPAT;<br>US-PGPUB: | 2004/04/26 15:34 |
| i  |     | US-3262940-\$ or US-35071330-\$ or US-3581636-\$ or US-3810136-\$ or US-4230990-\$ or US-4430531-\$ or US-4677466-\$ or US-4697209-\$ or US-4739398-\$ or US-4857999-\$ or US-5019899-\$ or US-5220640-\$ or | EPO: JPO:           |                  |
| l  |     |  | DERWENT:            |                  |
|    |     | US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or US-5402519-\$ or US-5426745-\$).did, or   |                     |                  |
| 1  | 1   | (US-20010005823-\$).did. or (EP-731446-\$ or DE-4230990-\$).did. or (US-3810156-\$ or US-4230990-\$ or   | IBM_TDB             |                  |
|    |     | US-4450531-\$ or EP-161512-\$ or EP-210609-\$ or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or  |                     | <b>{</b>         |
|    |     | EP-488150-\$ or DE-4230990-\$ or US-5220640-\$ or US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or   |                     |                  |
|    | l _ | US-5426745-\$).did.) and ("%" or percent\$4)   |                     |                  |
| 30 | 2   | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or  | USPAT;              | 2004/04/26 15:35 |
|    |     | US-5262940-\$ or US-5671330-\$ or US-5581658-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or  | US-PGPUB;           |                  |
|    |     | US-4677466-\$ or US-4697209-\$ or US-4739398-\$ or US-4857999-\$ or US-5019899-\$ or US-5220640-\$ or  | EPO; JPO;           |                  |
| 1  | i   | US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or US-5402519-\$ or US-5426745-\$).did. or   | DERWENT:            |                  |
| i  |     | US-20010005823-\$).did. or (EP-731446-\$ or DE-4230990-\$).did. or (US-3810156-\$ or US-4230990-\$ or  | IBM_TDB             |                  |
|    |     | US-4450531-\$ or EP-161512-\$ or EP-210609-\$ or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or  |                     |                  |
|    |     | EP-488150-\$ or DE-4230990-\$ or US-5220640-\$ or US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or   |                     |                  |
|    |     | US-5426745-\$).did.) and ("%" or percent\$4) same (select\$4 identif\$8 match\$4)  |                     |                  |
| 31 | 3   | \((\("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"   | USPAT;              | 2004/04/26 15:41 |
| i  |     | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"  | US-PGPUB;           |                  |
|    | ]   | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"  | EPO; JPO;           |                  |
| i  |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"  | DERWENT;            |                  |
| ļ  |     | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"  | IBM_TDB             |                  |
| Į. |     | "6292793" "6304523" "6304875" "6317733" "6345256"),pn, and (@ad @pd @prad)<=20000721)  | · -                 |                  |
| !  |     | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or  |                     |                  |
|    |     | US-5262940-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and ("%" or percent\$4) same (select\$4  | 1                   | 1                |
|    |     | identif\$8 match\$4)   |                     |                  |
| 32 | 25  | ((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"   | USPAT:              | 2004/04/26 15:55 |
| 1  |     | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"  | US-PGPUB:           |                  |
|    |     | 1 "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"  | EPO: JPO:           |                  |
|    |     | ** "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"   | DERWENT:            |                  |
| ļ  |     | 1 "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"  | IBM TOB             |                  |
| i  |     | "6292793" "6304523" "6304875" "6317733" "6345256"),pn, and (@ad @pd @prad)<=20000721)  |                     |                  |
|    |     | ((US-5983176-\$ or US-5347083-\$ or US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539635-\$ or  | l                   |                  |
|    |     | US-5262940-\$ or US-5671330-\$),did. or (EP-731446-\$),did.) ((US-5983176-\$ or US-5347083-\$ or   |                     | 1                |
|    | 1   | US-5250745-\$ or US-4415767-\$ or US-5918223-\$ or US-5539835-\$ or US-5262940-\$ or US-5671330-\$ or  | ł                   |                  |
|    |     | US-5581658-\$ or US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or US-4677468-\$ or US-4697209-\$ or  |                     |                  |
| 1  |     | US-4739398-\$ or US-4857999-\$ or US-5019899-\$ or US-5220840-\$ or US-5306893-\$ or US-5308915-\$ or  | İ                   |                  |
| 1  |     | US-5381513-\$ or US-5402519-\$ or US-5426745-\$),did. or (US-20010005823-\$),did. or (EP-731446-\$ or  |                     |                  |
| I  |     | DE-4230990-\$),did. or (US-3810156-\$ or US-4230990-\$ or US-4450531-\$ or EP-181512-\$ or EP-210609-\$  | l                   |                  |
| 1  |     | or EP-248533-\$ or US-4857999-\$ or EP-367585-\$ or EP-488150-\$ or DE-4230990-\$ or US-5220840-\$ or  | ĺ                   |                  |
| İ  | 1   | US-5306893-\$ or US-5308915-\$ or US-5381513-\$ or US-5426745-\$).did.)) and (remov\$4 floppy FDD tape)  | l                   |                  |
|    | 1   | with stor\$4   |                     |                  |
|    | 1   | 1 min order  | L                   | 1                |

| 33 | 50 | *\daggar\dagg   | USPAT: US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  USPAT: US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/04/26 16:18 |
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|    | 0  | tape) with (stor\$4 medi\$4 record\$4)) 09/621,619   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  | 2004/04/19 14:03 |
| -  | 2  | 5987525.pn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  | 2004/04/19 14:24 |
| -  | 97 | ("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5512453" "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685" "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214" "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160" "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470" "6292793" "6304523" "6304875" "6317733" "6345265") pn.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  | 2004/04/20 06:39 |

Search History 4/26/04 4:30:00 PM Page 5 C:VAPPS\EAST\Workspaces\09621619.wsp

| _ |     |     |   | ···-      |                  |
|---|-----|-----|---|-----------|------------------|
| Т | -   | 10  | ("5347083" "5983176" "5250745" "731446").pn.  | USPAT;    | 2004/04/19 16:31 |
| П |     |     |   | US-PGPUB; |                  |
| П |     |     |   | EPO; JPO; |                  |
| ı |     |     |   | DERWENT;  |                  |
| П |     | _   |   | IBM_TDB   |                  |
| П |     | 5   | US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.                 | USPAT;    | 2004/04/20 06:38 |
| П |     |     |   | EPO       |                  |
| ı | .   | 0   | (((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.)             | USPAT;    | 2004/04/20 07:16 |
| Į |     |     | \(\)("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"                | US-PGPUB: |                  |
| ı |     |     | <sup>*4780856</sup> * *4823807* *5010342* *5442591* *6229522* *6263284* *6404977* *4876617* *5255685*         | EPO: JPO: |                  |
| ١ |     |     | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                     | DERWENT:  |                  |
| 1 | ı   | Ì   | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                     | IBM_TDB   |                  |
| 1 | i   |     | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                     |           | }                |
| ŀ | i   |     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                    |           | 1                |
| ŀ |     |     | (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) same (amplitude gain   |           | 1                |
| 1 | - 1 |     | strength volume) same (signature pattern)   |           |                  |
| 1 |     | 184 | (wave\$6) and (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) same     | USPAT:    | 2004/04/20 08:47 |
| Ĺ |     | 104 | (amplitude gain strength volume) same (signature pattern)   | US-PGPUB: | 2004/04/20 06.47 |
| t |     |     | (amplicude gain strength voidine) same (signature pattern)  |           |                  |
| 1 |     |     |   | EPO; JPO; |                  |
|   |     |     |   | DERWENT;  |                  |
| 1 |     | _   |   | IBM_TDB   |                  |
| ı | ٠   | 7   | (wave\$6) with (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) same    | USPAT;    | 2004/04/20 06:47 |
| ı | 1   |     | (amplitude gain strength volume) same (signature pattern)   | US-PGPUB: |                  |
| 1 |     |     |   | EPO; JPO; |                  |
| 1 | 1   |     |   | DERWENT:  |                  |
| ı |     |     |   | IBM_TDB   |                  |
| ı | .   | 14  | (wave\$6) with (database file) same (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) same    | USPAT;    | 2004/04/20 06:50 |
|   |     |     | (amplitude gain strength volume) same (signature pattern)   | US-PGPUB; |                  |
| 1 |     |     |   | EPO; JPO; |                  |
|   |     |     |   | DERWENT:  |                  |
| t |     |     |   | IBM_TDB   |                  |
|   | .   | 0   | (((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.)             | USPAT:    | 2004/04/20 06:47 |
| ł |     |     | (("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6483387" "5572483" "5012453"                   | US-PGPUB: |                  |
|   |     |     | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                     | EPO: JPO: |                  |
| 1 | l   |     | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                     | DERWENT:  |                  |
| 1 | l   |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                     | IBM TDB   |                  |
| 1 |     |     | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                     | ,,,,,     |                  |
| 1 | l   |     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                    |           |                  |
|   | J   |     | ((wave\$6) with (database file) same (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) same   |           |                  |
|   | - 1 |     | (amplitude gain strength volume) same (signature pattern))  |           |                  |
| 1 | .   | n   | 704/.ccls. and (@ad @pd @prad)<=20000721 and (wave\$6) with (database file) same (search\$4 seek\$4           | USPAT;    | 2004/04/20 06:51 |
| 1 | ·   | "   | match\$4 find\$4 locat\$4 compar\$4 select\$4) same (amplitude gain strength volume) same (signature pattern) | US-PGPUB: | 2004/04/20 00:51 |
| 1 | l   |     | micros incor incore compares selected) same (amplitude gain strangth volume) same (signature pattern)         |           |                  |
| 1 |     |     |   | EPO; JPO; |                  |
| 1 |     |     |   | DERWENT;  |                  |
| 1 |     | 2   | 7044015   | IBM_TDB   |                  |
| 1 | . 1 | 2   | 704/.ccls. and (@ad @pd @prad)<=20000721 and (wave\$6) same (database file) same (search\$4 seek\$4           | USPAT;    | 2004/04/20 07:49 |
| 1 | - 1 |     | match\$4 find\$4 locat\$4 compar\$4 select\$4) same (amplitude gain strength volume) same (signature pattern) | US-PGPUB; |                  |
| 1 |     |     |   | EPO; JPO; | 1                |
| 1 |     |     |   | DERWENT;  | 1                |
| L |     |     |   | IBM_TDB   |                  |

| • | 4    | ((*6389402" *599040) 6253193" *6363488" *6427140" *6389308" *8463387" *5572483" *5012453                          | USPAT;     | 2004/04/20 07:08 |
|---|------|---|------------|------------------|
|   |      | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                         | US-PGPUB;  |                  |
|   |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | EPO; JPO;  |                  |
|   |      | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | DERWENT;   |                  |
|   |      | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         | IBM TDB    |                  |
|   |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721) and                         | - 0        | 1                |
|   |      | 704/ ccls.  |            |                  |
| - | 14   | (((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.)                 | USPAT:     | 2004/04/20 07:48 |
|   |      | ((*6389402* *5990407* *6253193* *6363488* *6427140* *6389308* *6463387* *5572483* *5012453*                       | US-PGPUB:  |                  |
|   | i    | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "8404977" "4876617" "5255685"                         | EPO: JPO:  |                  |
|   |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | DERWENT:   |                  |
|   |      | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | IBM_TDB    | į.               |
|   |      | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         |            | l                |
|   | 1    | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                        |            |                  |
|   | 1    | (database file) and (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4) and (amplitude gain         |            |                  |
|   |      | strength volume) and (signature pattern)  |            | 1                |
| _ | 14   | l   | USPAT:     | 2004/04/20 07:50 |
|   | '*   | (("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"                       | US-PGPUB:  | 200              |
|   |      | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                         | EPO: JPO:  |                  |
|   | 1    | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | DERWENT:   | 1                |
|   |      | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | IBM_TDB    | ì                |
|   | i    | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         | 1000       |                  |
|   |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                        | ŀ          |                  |
|   |      | (database file) and (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) and         |            |                  |
|   |      | (amplitude gain strength volume) and (signature pattern)  |            |                  |
|   | 1062 | 704/.ccls. and (@ad @pd @prad)<=20000721 and (database file) and (search\$4 seek\$4 match\$4 find\$4              | USPAT:     | 2004/04/20 08:06 |
| - | 1002 | locat\$4 compar\$4 select\$4 choos\$4 choice) and (amplitude gain strength volume) and (signature pattern)        | US-PGPUB:  | 2004,04,25 00.00 |
|   |      | Total of Compared Salected Choosed Choice, and (amplitude gain strength volume) and (argulator pattern)           | EPO: JPO:  | İ                |
|   |      |   | DERWENT:   |                  |
|   |      |   | IBM TDB    | ļ                |
|   | 47   | (((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.)                 | USPAT:     | 2004/04/20 07:51 |
| • | "    | (("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"                       | US-PGPUB:  | 2004/04/20 07.51 |
|   |      | (( 6369402  | EPO: JPO:  | ļ                |
|   |      | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | DERWENT:   |                  |
|   | i .  | #5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | IBM_TDB    | 1                |
|   |      | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         | I IDMI_1DD | 1                |
|   |      | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                        | i          | Į.               |
|   |      | (database file collect\$4 assort\$4) and (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4         |            | 1                |
|   |      |   |            | ļ                |
|   |      | choos\$4 choice) and (amplitude gain strength volume) and (signature pattern)                                     |            | 0004/04/00 07:54 |
| - | 17   |   | USPAT;     | 2004/04/20 07:51 |
|   |      | (("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"                       | US-PGPUB;  | 1                |
|   |      | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                         | EPO; JPO;  | 1                |
|   | I    | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | DERWENT;   | [                |
|   |      | "5799982" "5828405" "5993059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | IBM_TDB    | 1                |
|   | I    | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         | ļ          |                  |
|   |      | "6292793" "6304523" "6304875" "6317733" "6345256") pn. and (@ad @pd @prad)<=20000721)) and                        | 1          | }                |
|   |      | (database file collect\$4 assort\$4 library) and (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 | 1          | 1                |
|   | I    | choos\$4 choice) and (amplitude gain strength volume) and (signature pattern)                                     | L          |                  |

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|   | 3     | ((((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.)                | USPAT;       | 2004/04/20 07:51 |
|---|-------|---|--------------|------------------|
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|   |       | <sup>4</sup> 4780856" "4823807" "5010342 <b>" "</b> 5442591" "6229522" "6263284" "6404977" "4876617" "5255685"    | EPO; JPO;    |                  |
|   | l     | *6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                         | DERWENT;     |                  |
|   |       | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                         | ІВМ ТОВ      |                  |
|   |       | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                         | · <b>-</b> · |                  |
|   | i     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and                        |              |                  |
|   |       | (database file collect\$4 assort\$4 library) and (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 |              |                  |
|   |       | choos\$4 choice) and (amplitude gain strength volume) and (signature pattern)) not ((((US-5983176-\$ or           |              |                  |
|   |       |   |              |                  |
|   |       | US-5250745-\$ or US-5347083-\$ or US-5987525-\$).did. or (EP-731446-\$).did.) (("6389402" "5990407"               |              |                  |
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|   |       | "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685" "6287765" "5959627"                         |              | 1                |
|   |       | "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214" "5799982" "5828405"                         |              | į                |
|   |       | *5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160" "6088455" "6173153"                         |              |                  |
|   |       | ** "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470" "6292793" "6304523"                      |              | 1                |
|   | 1     | "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=20000721)) and (database file) and                        |              |                  |
|   | 1     | (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) and (amplitude gain strength    |              |                  |
|   |       | volume) and (signature pattern))  |              |                  |
|   | 556   |   | USPAT:       | 2004/04/20 07:52 |
| - | 330   | locat\$4 compar\$4 select\$4 choos\$4 choice) and (amplitude gain strength volume) and (signature pattern))       | US-PGPUB:    | 2004/04/20 07.32 |
|   |       |   |              |                  |
|   | 1     | and (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) and    | EPO; JPO;    |                  |
|   | İ     | (amplitude gain strength volume) and (signature pattern)  | DERWENT;     |                  |
|   |       |   | IBM_TDB      |                  |
| • | 95    |   | USPAT;       | 2004/04/20 07:52 |
|   | ł     | locat\$4 compar\$4 select\$4 choos\$4 choice) and (amplitude gain strength volume) and (signature pattern))       | US-PGPUB;    |                  |
|   | Ì     | and (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) and    | EPO; JPO;    |                  |
|   | 1     | (amplitude gain strength volume) with (signature pattern)   | DERWENT:     |                  |
|   | l .   |   | IBM_TDB      |                  |
|   | 5     | (704/,ccls, and (@ad @pd @prad)<=20000721 and (database file) and (search\$4 seek\$4 match\$4 find\$4             | USPAT:       | 2004/04/20 08:06 |
|   |       | locat\$4 compar\$4 select\$4 choos\$4 choice) and (amplitude gain strength volume) and (signature pattern))       | US-PGPUB:    |                  |
|   |       | and (database file) with (search\$4 seek\$4 match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice)        | EPO: JPO:    |                  |
|   |       | same (amplitude gain strength volume) with (signature pattern)  | DERWENT:     |                  |
|   |       | Same (ampitude gair stronger volume) mar (signature pattern)  | IBM TDB      |                  |
|   | 1 404 | 704/ cels and /@nd @nd @need/c=20000721 and /database file) with ways \$6   | USPAT:       | 2004/04/20 00:07 |
| • | 134   | 704/.ccls. and (@ad @pd @prad)<=20000721 and (database file) with wave\$6   |              | 2004/04/20 08:07 |
|   |       |   | US-PGPUB;    |                  |
|   |       |   | EPO; JPO;    |                  |
|   |       |   | DERWENT;     |                  |
|   |       |   | IBM_TDB      |                  |
| - | 4     | (704/.ccls. and (@ad @pd @prad)<=20000721 and (database file) with wave\$6) and (search\$4 seek\$4                | USPAT;       | 2004/04/20 08:08 |
|   |       | match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) same (amplitude gain strength volume) with         | US-PGPUB;    |                  |
|   |       | (signature pattern)   | EPO; JPO;    | l l              |
|   |       |   | DERWENT:     | 1                |
|   | l     |   | IBM TDB      | i                |
|   | 56    | 704/.ccls, and (@ad @pd @prad)<=19970415 and (database file) with wave\$8   | USPAT:       | 2004/04/20 08:08 |
| - | ~     | , our loss. and loss of the depression - 100 for the state (salabase me) and waves                                | US-PGPUB:    | 2007/07/20 08:08 |
|   | l     |   | EPO: JPO:    |                  |
|   | l     |   | DERWENT:     | ]                |
|   | ì     | 1   | IBM TOB      |                  |
|   | !     | 1   | I I DW I DR  | 1                |

| -   | 3   | (704/.ccis. and (@ac-epd @prad)<=19970415 and (database file) with wave\$6) and (search\$4 search\$4      | USPAT;     | 2004/04/20 08:08   |
|-----|-----|---|------------|--------------------|
|     |     | match\$4 find\$4 locat\$4 compar\$4 select\$4 choos\$4 choice) same (amplitude gain strength volume) with | US-PGPUB;  |                    |
|     |     | (signature pattern)   | EPO; JPO;  | •                  |
|     |     |   | DERWENT;   |                    |
| i   |     |   | IBM_TDB    |                    |
| -   | 62  | ("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"                | USPAT:     | 2004/04/20 11:09   |
| 1   |     | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                 | US-PGPUB:  |                    |
| !   | ŀ   | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "6692214"                 | EPO: JPO:  |                    |
| l   | İ   | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                 | DERWENT:   |                    |
|     | 1   | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                 | IBM_TDB    |                    |
|     |     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415                      |            |                    |
| _   | 1 9 | (US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or    | USPAT:     | 2004/04/20 09:52   |
| _   |     | US-5918223-\$ or US-5671330-\$).did. or (EP-731448-\$).did.   | EPO        | 200-110-1120-00.02 |
|     | 68  |   | USPAT:     | 2004/04/20 09:53   |
| 1 - | "   | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                 | US-PGPUB:  | 2004/04/20 03.33   |
|     |     | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                 | EPO: JPO:  | 1                  |
|     |     |   | DERWENT:   |                    |
|     |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                 |            | ļ                  |
|     |     | "6088455" "6173153" "6189329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                 | IBM_TDB    | 1                  |
|     |     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<= 19970415)                    |            |                    |
|     |     | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or   |            |                    |
|     |     | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415               | l <u>-</u> | l                  |
| -   | 15  | ""  | USPAT;     | 2004/04/20 09:53   |
|     |     | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                 | US-PGPUB;  |                    |
|     |     | #6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                 | EPO; JPO;  |                    |
|     |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                 | DERWENT;   |                    |
|     |     | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                 | IBM_TDB    |                    |
| ļ   | 1   | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                     |            |                    |
|     | 1   | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or   | i          |                    |
|     | 1   | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and track    |            |                    |
| -   | 6   | (((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"             | USPAT;     | 2004/04/20 09:54   |
|     | 1   | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                 | US-PGPUB;  |                    |
|     | 1   | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                 | EPO; JPO;  |                    |
|     |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                 | DERWENT;   |                    |
|     | 1   | [ "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"               | IBM_TDB    |                    |
|     |     | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                     | _          | ł                  |
|     | 1   | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or   |            |                    |
|     | 1   | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and track    |            | l .                |
|     | 1   | same (length duration long\$4)  |            |                    |
| -   | 8   | (((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"             | USPAT:     | 2004/04/20 09:55   |
|     | 1   | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                 | US-PGPUB:  |                    |
|     | 1   | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                 | EPO; JPO;  |                    |
|     |     | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                 | DERWENT:   |                    |
|     | 1   | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6238998" "6243328" "6272470"                 | IBM_TDB    |                    |
|     | 1   | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<= 19970415)                    |            |                    |
|     | 1   | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or   |            |                    |
|     | 1 : | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and          |            |                    |
| ı   |     | 03-38 10223-3 01 03-307 1330-3).did. 01 (EF-73 1440-3).did.)) and (@ad @pd @plad) = 13970413) and         |            |                    |
|     | اا  | I I COLOR   | l          | L                  |

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| -   | 9        | ((((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"              | USPAT:              | 2004/04/20 09:55 |
|-----|----------|---|---------------------|------------------|
| l   | 1        | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                   | US-PGPUB:           |                  |
|     |          | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                   | EPO: JPO:           |                  |
|     |          | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                   | DERWENT:            |                  |
|     |          | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                   | IBM_TDB             | i                |
|     |          | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                       |                     |                  |
|     |          | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or     |                     | Ì                |
|     |          | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and track      |                     |                  |
|     |          | same (length duration long\$4)) (((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308"             |                     | ł I              |
|     | I        | "6463387" "5572483" "5012453" "4780856" "4823807" "5010342" "5442591" "6229522" "6263284"                   |                     | ł I              |
|     | 1        | "6404977" "4876617" "5255685" "6287765" "5959627" "4994971" "5262940" "5475835" "5539635"                   |                     |                  |
|     |          | "5583763" "5592511" "5692214" "5799982" "5828405" "5893059" "5918223" "5920317" "5988078"                   |                     | i                |
|     |          | "6014624" "6049730" "6085160" "6088455" "6173153" "6188329" "6192328" "6208981" "6233569"                   |                     | •                |
|     | 1        | "6238998" "6243328" "6272470" "6292793" "6304523" "6304875" "6317733" "6345256"),pn. and (@ad @pd           |                     |                  |
|     | 1        | @prad)<=19970415) ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$       |                     |                  |
|     | i        | or US-5539635-\$ or US-5918223-\$ or US-5671330-\$).did. or (EP-731448-\$).did.)) and (@ad @pd              |                     |                  |
|     | ł        | @prad)<= 19970415) and tracks)  |                     |                  |
|     | 28       |   | USPAT:              | 2004/04/20 11:05 |
| · · | 1        | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876817" "5255685"                   | US-PGPUB:           | 2004/04/20 11:03 |
|     | i        | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                   | EPO: JPO:           |                  |
|     | 1        | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                   | DERWENT:            |                  |
|     |          | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6238998" "6243326" "6272470"                   | IBM TOB             |                  |
|     |          | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                       | IDM_IUB             |                  |
|     |          | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or     |                     | 1                |
|     |          |   |                     |                  |
|     |          | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and occur\$12  |                     |                  |
|     | 36       | (((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"               | 110047              | 0004/04/00 44/05 |
| l • | 30       |   | USPAT;<br>US-PGPUB: | 2004/04/20 11:05 |
|     |          | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876817" "5255885"                   |                     |                  |
|     | 1        | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                   | EPO; JPO;           |                  |
|     | 1        | **************************************  | DERWENT;            |                  |
|     |          | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                   | IBM_TDB             |                  |
|     | 1        | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                       |                     |                  |
|     | <b>[</b> | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or     |                     |                  |
|     | 1        | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and            |                     |                  |
|     |          | (occurs 12 repets 12 repeats 4)   |                     |                  |
|     | 0        | (((("6389402" "5990407" "6253193" "6363488" "8427140" "6389308" "6463387" "5572483" "5012453"               | USPAT;              | 2004/04/20 11:08 |
|     | 1        | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"                   | US-PGPUB;           |                  |
|     | 1        | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"                   | EPO; JPO;           |                  |
|     |          | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"                   | DERWENT;            | l i              |
|     |          | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"                   | IBM_TOB             |                  |
|     | 1        | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<= 19970415)                      |                     | <b>{</b>         |
|     |          | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or     |                     |                  |
|     | 1        | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and            |                     | 1                |
|     |          | (occur\$12 repet\$12 repeat\$4 recur\$8 re-occur\$4 reoccur\$4) and sample and band and (segment part piece |                     |                  |
|     |          | section sub-section subsection fragment division divid\$4 subdivi\$6 sub-divi\$6)                           |                     |                  |

|    |    |   |           | _                |
|----|----|---|-----------|------------------|
| •  | 36 | (((("6389402" "5990" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "50124                 | USPAT;    | 2004/04/20 11:08 |
| i  |    | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"               | US-PGPUB: |                  |
| 1  |    | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"               | EPO: JPO: |                  |
| ı  |    | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"               | DERWENT:  |                  |
| 1  |    | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"               | IBM TDB   |                  |
|    |    | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                   |           |                  |
|    |    | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or |           |                  |
| ł  |    | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and        |           |                  |
|    |    | (occur\$12 repet\$12 repeat\$4 recur\$8 re-occur\$4 reoccur\$4)   |           |                  |
| 1- | 3  | (((("6389402" "5990407" "6253193" "6363488" "6427140" "6389308" "6463387" "5572483" "5012453"           | USPAT:    | 2004/04/20 11:09 |
|    | 1  | "4780856" "4823807" "5010342" "5442591" "6229522" "6263284" "6404977" "4876617" "5255685"               | US-PGPUB: |                  |
|    |    | "6287765" "5959627" "4994971" "5262940" "5475835" "5539635" "5583763" "5592511" "5692214"               | EPO: JPO: |                  |
|    |    | "5799982" "5828405" "5893059" "5918223" "5920317" "5988078" "6014624" "6049730" "6085160"               | DERWENT:  |                  |
|    |    | "6088455" "6173153" "6188329" "6192326" "6208981" "6233569" "6236998" "6243328" "6272470"               | IBM TDB   |                  |
|    |    | "6292793" "6304523" "6304875" "6317733" "6345256").pn. and (@ad @pd @prad)<=19970415)                   |           |                  |
|    |    | ((US-5983176-\$ or US-5250745-\$ or US-5347083-\$ or US-5987525-\$ or US-4415767-\$ or US-5539635-\$ or |           |                  |
|    |    | US-5918223-\$ or US-5671330-\$).did. or (EP-731446-\$).did.)) and (@ad @pd @prad)<=19970415) and        |           |                  |
|    |    | (occur\$12 repet\$12 repeat\$4 recur\$8 re-occur\$4 reoccur\$4)) and 704/.ccls. and (@ad @pd            |           |                  |
| ŀ  |    | @prad)<=19970415  |           |                  |
| L  |    | (whise) > - 19910419  |           |                  |